

FIG. 1

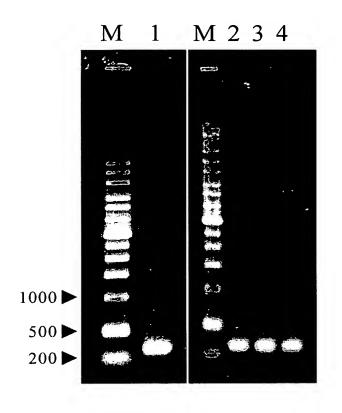


FIG. 2

		1 60
CCRC12913	(1)	
CCRC14001	(1)	
GM-080	(1)	
CCRC16100	(1)	
KLB58	(1)	AACGCTG-CAGCGTGCCTA-TACATGCCAGTCGAACGAGTTCTC
PB4	(1)	ATCCTGGCTCAGGATGAACGCTGGCGGCGTGCCTAATACATGCAAGTCGAACGAGTTCTC
F31	(1)	AACGCTGGCGGCGTGCCTAATACATGCAAGTCGAACGAGTTCTC
Consensus	(1)	
00000	ν-,	
		61 120
CCRC12913	(1)	
CCRC14001	7.7	GGTGAGTAC
GM-080	(1)	
CCRC16100	(1)	GCGAGGGTGAGTAC
KLB58	(43)	
PB4	(61)	GTTGATGATCGCTGCTTGCACCGAGATTCAACATGGAACGAGTGGCGGACGGGTGAGTAA
F31	(45)	GTTGATGATCGGTGCTTGCACCGAGATTCAACATGGAACGAGTGGCGGACGGGTGAGTAA
Consensus	(61)	G GGGTGAGTA
		100
CCRC12913	/1\	121 180TGGGTA-CCTGCCCTTAAGTGGGGGATAACATTTGGAAACAGATGCTAATACCGCA
		CGTGGGTA-CCTGCCCTTAAGTGGGGGGATAACATTTGGAAACAGATGCTAATACCGCA
CCRC14001		CGTGGGTA-CCTGCCCTTA-GTGGGGGATAACATTTGGAAACAGATGCTAATACCGCA
GM-080		
CCRC16100		CGTGGGTA-CCTGCCCTTAAGTGGGGGATAACATTTGGAAACAGATGCTAATACCGCA
KLB58		CACGTGGGTAACCTGCCCTTAAGTGGGGGATAACATTTGGAAACAGATGCTAATACCGCA
PB4		CACGTGGGTAACCTGCCCTTAAGTGGGGGATAACATTTGGAAACAGATGCTAATACCGCA
F31		CACGTGGGTAACCTGCCCTTAAGTGGGGGATAACATTTGGAAACAGATGCTAATACCGCA
Consensus	(121)	C GTGGGTA CCTGCCCTTAAGTGGGGGATAACATTTGGAAACAGATGCTAATACCGCA
		181 240
CCRC12913	(56)	
CCRC14001	(67)	TAGATCCAAGAACCGCATGGTTCTTGGCTGAAAGATGGCGTAAGCTATCGCTTTTGGATG
GM-080	(65)	TAGATCCAAGAACCGCATGGTTCTTGGCTGAAAGATGGCGTAAGCTATCGCTTTTGGATG
CCRC16100	(72)	TAGATCCAAGAACCGCATGGTTCTTGGCTGAAAGATGGCGTAAGCTATCGCTTTTGGATG
KLB58	(163)	TAGATCCAAGAACCGCATGGTTCTTGGCTGAAAGATGGCGTAAGCTATCGCTTTTGGATG
PB4	(181)	TAGATCCAAGAACCGCATGGTTCTTGGCTGAAAGATGGCGTAAGCTATCGCTTTTGGATG
F31	(165)	TAGATCCAAGAACCGCATGGTTCTTGGCTGAAAGATGGCGTAAGCTATCGCTTTTGGATG
	(181)	
Consensus	(101)	TAGATCCAAGAACCGCATGGTTCTTGGCTGAAAGATGGCGTAAGCTATCGCTTTTGGATG
		241 300
CCRC12913	(116)	${\tt GACCCGCGGCGTATTAGCTAGTTGGTGAGGTAATGGCTCACCAAGGCGATGATACGTAGC}$
CCRC14001	(127)	GACCCGCGCGTATTAGCTAGTTGGTGAGGTAATGGCTCACCAAGGCGATGATACGTAGC
GM-080		GACCCGCGCGTATTAGCTAGTTGGTGAGGTAATGGCTCACCAAGGCGATGATACGTAGC
CCRC16100		GACCCGCGCGTATTAGCTAGTTGGTGAGGTAATGGCTCACCAAGGCGATGATACGTAGC
KLB58		GACCCGCGGCGTATTAGCTAGTTGGTGAGGTAATGGCTCACCAAGGCGATGATACGTAGC
PB4		GACCCGCGCGTATTAGCTAGTTGGTGAGGTAATGGCTCACCAAGGCGATGATACGTAGC
F31		GACCCGCGGCGTATTAGCTAGTTGGTGAGGTAATGGCTCACCAAGGCGATGATACGTAGC
Consensus		GACCCGCGGCGTATTAGCTAGTTGGTGAGGTAATGGCTCACCAAGGCGATGATACGTAGC
Consciisas	(211)	0.100000000 m.comor activities and activities activities and activities activities and activities activities and activities activities activities activities activities activities and activities a
		301 360
CCRC12913		${\tt CGAACTGAGAGGTTGATCGGCCACATTGGGACTGAGACACGGCCCAAACTCCTACGGGAG}$
CCRC14001		${\tt CGAACTGAGAGGTTGATCGGCCACATTGGGACTGAGACACGGCCCAAACTCCTACGGGAG}$
GM-080		${\tt CGAACTGAGAGGTTGATCGGCCACATTGGGACTGAGACACGGCCCAAACTCCTACGGN}$
CCRC16100		${\tt CGAACTGAGAGGTTGATCGGCCACATTGGGACTGAGACACGGCCCAAACTCCTACGGG}$
KLB58		CGAACTGAGAGGTTGATCGGCCACATTGGGACTGAGACACGGCCCAAACTCCTACGGG
PB4	(301)	${\tt CGAACTGAGAGGTTGATCGGCCACATTGGGACTGAGACACGGCCCAAACTCCTACGGG}$
F31		CGAACTGAGAGGTTGATCGGCCACATTGGGACTGAGACACGGCCCAAACTCCTACGGG
Consensus		CGAACTGAGAGGTTGATCGGCCACATTGGGACTGAGACACGGCCCAAACTCCTACGGG
	/	

FIG. 3

		361 420
CCRC12913	(236)	
CCRC14001	(247)	
GM-080	(243)	
CCRC16100	(250)	AGGCAGCAGT-GGGA
KLB58	(341)	AGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAACGCCGCGTGAG
PB4	(359)	AGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAACGCCGCGTGAG
F31	(343)	AGGCAGCAGTAGGGAATCTTCCACAATGGACGCAAGTCTGATGGAGCAACGCCGCGTGAG
Consensus		AGGCAGCAGT GGGA
	/ . >	421 480
CCRC12913	(251)	
CCRC14001		
GM-080	(257)	
CCRC16100	(264)	
KLB58	(401)	TGAAGAAGGCTTTCGGGTCGTAAAACTCTGTTGTTGGAGAAGAATGGTCGGCAGAGTAAC
PB4	(419)	TGAAGAAGGCTTTCGGGTCGTAAAACTCTGTTGTTGGAGAAGAATGGTCGGCAGAGTAAC
F31	(403)	TGAAGAAGGCTTTCGGGTCGTAAAACTCTGTTGTTGGAGAAGAATGGTCGGCAGAGTAAC
Consensus	(421)	
		481 540
CCRC12913	(251)	
CCRC14001	(262)	
GM-080	(257)	
CCRC16100	(264)	
KLB58	(461)	TGTTGTCGGCGTGACGGTATCCAACCAGAAAGCCACGGCTAACTACGTGCCAGCAGCCGC
PB4	(479)	TGTTGTCGGCGTGACGGTATCCAACCAGAAAGCCACGGCTAACTACGTGCCAGCAGCCGC
F31	(463)	TGTTGTCGGCGTGACGGTATCCAACCAGAAAGCCACGGCTAACTACGTGCCAGCAGCCGC
Consensus	(481)	
		541 600
	(0=+)	
CCRC12913	(251)	
CCRC12913 CCRC14001	(262)	
CCRC14001	(262)	
	(262)	
CCRC14001 GM-080	(262) (257)	
CCRC14001 GM-080 CCRC16100	(262) (257) (264)	
CCRC14001 GM-080 CCRC16100 KLB58	(262) (257) (264) (521)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4	(262) (257) (264) (521) (539)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31	(262) (257) (264) (521) (539) (523)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus	(262) (257) (264) (521) (539) (523) (541)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus	(262) (257) (264) (521) (539) (523) (541)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus	(262) (257) (264) (521) (539) (523) (541) (251) (262)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080	(262) (257) (264) (521) (539) (523) (541) (251) (262) (257)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100	(262) (257) (264) (521) (539) (523) (541) (251) (262) (257) (264)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58	(262) (257) (264) (521) (539) (523) (541) (251) (262) (257) (264) (581)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4	(262) (257) (264) (521) (539) (523) (541) (251) (262) (257) (264) (581) (539)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31	(262) (257) (264) (521) (539) (523) (541) (251) (262) (257) (264) (581) (539) (583)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4	(262) (257) (264) (521) (539) (523) (541) (251) (262) (257) (264) (581) (539)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31	(262) (257) (264) (521) (539) (523) (541) (251) (262) (257) (264) (581) (539) (583) (601)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31	(262) (257) (264) (521) (539) (523) (541) (251) (262) (257) (264) (581) (539) (583)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus	(262) (257) (264) (521) (539) (523) (541) (251) (262) (257) (264) (581) (539) (583) (601)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus	(262) (257) (264) (521) (539) (523) (541) (251) (262) (257) (264) (581) (539) (583) (601) (251) (262) (257)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001	(262) (257) (264) (521) (539) (523) (541) (251) (262) (257) (264) (583) (601) (251) (262) (257) (264)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001	(262) (257) (264) (521) (539) (523) (541) (251) (262) (257) (264) (583) (601) (251) (262) (257) (264) (264) (264) (641)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001	(262) (257) (264) (521) (539) (523) (541) (262) (257) (264) (581) (539) (583) (601) (251) (262) (257) (264) (262) (257) (264) (364) (364) (464) (464) (564)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG
CCRC14001	(262) (257) (264) (521) (539) (523) (541) (262) (257) (264) (581) (539) (583) (601) (251) (262) (257) (264) (262) (257) (264) (364) (364) (464) (464) (564)	GGTAATACGTAGGTGGCAAGCGTTATCCGGATTTATTGGGCGTAAAGCGAGCG

FIG. 3 (continued)

CCRC12913 (251) CCRC16100 (262) CRC16100 (264) KLB58 (701) TGCAAGAACACCAGTGGCGAAGGCGGCTGTCTGGTCTGTAACTGACGCTGAGGCTCGAAA PB4 (539) F31 (703) TGGAAGAACACCAGTGGCGAAGGCGGCTGTCTGGTCTGTAACTGACGCTGAGGCTCGAAA CONSENSUS (721) 781 840 CCRC12913 (251) CCRC11001 (262) GW-080 (257) CCRC16100 (264) KLB58 (761) GCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAAACGATGAATGCTA PB4 (539) F31 (763) CCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAAACGATGAATGCTA PB4 (539) F31 (763) CCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAAACGATGAATGCTA CONSENSUS (781) CCRC12913 (251) CCRC14001 (262) GW-080 (257) CCRC16100 (264) KLB58 (821) GGTGTTGGAGGGTTTCCGCCCTTCAGTGCCGCAGCTAACGCATTAAGCATTCCGCCTGGG CRC161010 (264) KLB58 (821) GGTGTTGGAGGGTTTCCGCCCTTCAGTGCCGCAGCTAACGCATTAAGCATTCCGCCTGGG CRC161010 (264) KLB58 (821) GGTGTTGGAGGGTTTCCGCCCTTCAGTGCCGCAGCTAACGCATTAAGCATTCCGCCTGGG CRC12913 (251) CCRC14001 (262) GW-080 (257) CCRC161010 (264) KLB58 (881) GAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGGCCCGCACAAGCGGTGGAG CONSENSUS (901) CCRC12913 (251) CCRC14001 (262) GW-080 (257) CCRC16100 (264) KLB58 (881) GAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCGGTGGAG CAM-080 (257) CCRC16100 (264) KLB58 (881) CATGCGGTTTCAAACTCAAAGGAATTGACGGGGGCCCCGCACAAGCGGTGGAG CAM-080 (257) CCRC16100 (264) KLB58 (881) CATGTGGTTTAATTCGAAGCAACCCGAAGAACCTTACCAAGTCTTGACATCTTTTGATCA CM-080 (257) CCRC16100 (264) KLB58 (941) CATGTGGTTTAATTCGAAGCAACCCGAAGAACCTTACCAAGTCTTGACATCTTTTGATCA CM-080 (257) CCRC16100 (264) KLB58 (1001) CCTGAGAGATCAGGTTTCCCCCTTCGGGGCCAAAATGACACGTGGTGACTTTTTGATCA CM-080 (257) CCRC16100 (264) KLB58 (1001) CCTGAGAGATCAGGTTTCCCCCTTCGGGGCCAAAATGACACGTGGTGCATCGTTGTCTCACACGTTGTGCACGTGTGTCCTCACGCGGGCCAAAATGACACGTGGTGCATGGTTGTCTCACACGTTGTGACACTCTTTTGATCACACGTGGTGGAGGATCAGGTTGAACCTCCCCCTTCGGGGCCAAAATGACACGTGGTGCATGGTTTTTTTT			721 780
CCRC12913 C251 CCRC16100 C264 CCRC12913 C251 CCRC16100 C264 CCRC12913 CCRC14001 C262 CCRC14001 C262 CCRC14001 C262 CCRC14001 C262 CCRC14001 C262 CCRC14001 C262 CCRC16100 C264 CCRC12913 CCRC14001 C262 CCRC16100 C264 CCRC16	CCRC12913	(251)	
CCRC12913 C251	CCRC14001	(262)	
RLBSS (701) TGGAAGAACACCAGTGGCGAAGCGCGCTGTCTGGTCTGTAACTGACGCTGAGACTGAAA PB4 (539) TGGAAGAACACCAGTGGCGAAGCGCGCTGTCTGGTCTGTAACTGACGCTGAGGCTCGAAA PB4 (539) TGGAAGAACACCAGTGGCGAAGCGCGCTGTCTGGTCTGTAACTGACGCTGAGGCTCGAAA PB4 (539) CATGGGTAGCCGAACACGGTTTAGATACCCTGGTAGTCCATGCCGTAAACCATGAATGCTA PB4 (539) CATGGGTAGCCGAACACGGATTAGATACCCTGGTAGTCCATGCCGTAAACGATGAATGCTA PB4 (539) CATGGGTAGCCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAAACGATGAATGCTA PB4 (539) CATGGGTAGCCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAAACGATGAATGCTA CACCAGAGAGAGAGAGAGATAGATACCCTGGTAGTCCATGCCGTAAACGATGAATGCTA CACCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGA	GM-080	(257)	
P84	CCRC16100	(264)	
Test	KLB58	(701)	TGGAAGAACACCAGTGGCGAAGGCGGCTGTCTGGTCTGTAACTGACGCTGAGGCTCGAAA
T81	PB4	(539)	
T81	F31	(703)	TGGAAGAACACCAGTGGCGAAGGCGGCTGTCTGGTCTGTAACTGACGCTGAGGCTCGAAA
CCRC12913 C251	Consensus	(721)	
CCRC12913 C251			
CCRC 14001 (262)			
CRC 1913 CST CS	CCRC12913	(251)	
CCRC16100	CCRC14001	(262)	
RLBSB	GM-080	(257)	
P84	CCRC16100		
F31	KLB58	(761)	GCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAAACGATGAATGCTA
Section Sect	PB4	(539)	
Section	F31	(763)	GCATGGGTAGCGAACAGGATTAGATACCCTGGTAGTCCATGCCGTAAACGATGAATGCTA
CCRC12913 (251) CCRC14001 (262) CCRC16100 (264) CCRC16100 (264) CCRC16100 (264) CRC16100 (264)	Consensus	(781)	
CCRC12913 (251) CCRC14001 (262) CCRC16100 (264) CCRC16100 (264) CCRC16100 (264) CRC16100 (264)			
CCRC14001 (262) GM-080 (257) CCRC16100 (264) KLB58 (821) GGTGTTGGAGGGTTTCCGCCCTTCAGTGCCGCAGCTAACGCATTAAGCATTCCGCCTGGG PB4 (539) ————————————————————————————————————			841 900
CM-080 (257) CCRC16100 (264) KLB58 (821) GGTGTTGGAGGGTTTCCGCCCTTCAGTGCCGCAGCTAACGCATTAAGCATTCCGCCTGGG PB4 (539) ————————————————————————————————————	CCRC12913		
CCRC16100	CCRC14001	(262)	
RKLB58	GM-080	(257)	
PB4	CCRC16100	(264)	
F31 (823) GGTGTTGGAGGGTTTCCGCCCTTCAGTGCCGCAGCTAACGCATTAAGCATTCCGCCTGGGCTGCTGCTGGGCTGCTGGGGCTGCTGGGGTGGT	KLB58	(821)	GGTGTTGGAGGGTTTCCGCCCTTCAGTGCCGCAGCTAACGCATTAAGCATTCCGCCTGGG
901 960	PB4	(539)	
901 960 CCRC12913 (251)	F31	(823)	GGTGTTGGAGGGTTTCCGCCCTTCAGTGCCGCAGCTAACGCATTAAGCATTCCGCCTGGG
CCRC12913 (251) CGRC16100 (264) KLB58 (881) GAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCGGTGGAG PB4 (539) CCRC12913 (251) CCRC14001 (262) 961 1020 CCRC12913 (251) CCRC14001 (262) GM-080 (257) CCRC16100 (264) KLB58 (941) CATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAAGTCTTGACATCTTTTGATCA PB4 (539) F31 (943) CATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAAGTCTTGACATCTTTTGATCA COnsensus (961) 1021 1080 CCRC12913 (251) CCRC14001 (262) GM-080 (257) CCRC16100 (264) LOSS (257) CCRC16100 (264) CCRC12913 (251) CCRC14001 (262) GM-080 (257) CCRC16100 (264) KLB58 (1001) CCTGAGAGATCAGGTTTCCCCTTCCGGGGGCCAAAATGACAGGTGGTGCATGGTTGTCGTCA PB4 (539) CCRC16100 (264) CCTGAGAGATCAGGTTTCCCCTTCCGGGGGCAAAATGACAGGTGGTGCATGGTTGTCGTCA PB4 (539) CCTGAGAGATCAGGTTTCCCCTTCCGGGGGCAAAATGACAGGTGGTGCATGGTTGTCGTCA	Consensus	(841)	
CCRC12913 (251) CGRC16100 (264) KLB58 (881) GAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCGGTGGAG PB4 (539) CCRC12913 (251) CCRC14001 (262) 961 1020 CCRC12913 (251) CCRC14001 (262) GM-080 (257) CCRC16100 (264) KLB58 (941) CATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAAGTCTTGACATCTTTTGATCA PB4 (539) F31 (943) CATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAAGTCTTGACATCTTTTGATCA COnsensus (961) 1021 1080 CCRC12913 (251) CCRC14001 (262) GM-080 (257) CCRC16100 (264) LOSS (257) CCRC16100 (264) CCRC12913 (251) CCRC14001 (262) GM-080 (257) CCRC16100 (264) KLB58 (1001) CCTGAGAGATCAGGTTTCCCCTTCCGGGGGCCAAAATGACAGGTGGTGCATGGTTGTCGTCA PB4 (539) CCRC16100 (264) CCTGAGAGATCAGGTTTCCCCTTCCGGGGGCAAAATGACAGGTGGTGCATGGTTGTCGTCA PB4 (539) CCTGAGAGATCAGGTTTCCCCTTCCGGGGGCAAAATGACAGGTGGTGCATGGTTGTCGTCA			
CCRC14001 (262)			901 960
GM-080 (257)	CCRC12913	(251)	
CCRC16100 (264)	CCRC14001	(262)	
KLB58	GM-080	(257)	
PB4 (539) ————————————————————————————————————	CCRC16100	(264)	
F31 (883) GAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCGGTGGAG (901)	KLB58	(881)	GAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCGGTGGAG
P61 1020	PB4		
961 1020	F31	(883)	GAGTACGACCGCAAGGTTGAAACTCAAAGGAATTGACGGGGGCCCGCACAAGCGGTGGAG
CCRC12913 (251)	Consensus	(901)	
CCRC12913 (251)			
CCRC14001 (262)		4	
GM-080 (257)		(251)	
CCRC16100 (264)		1 1	
KLB58		(257)	
PB4 (539)			
F31 (943) CATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAAGTCTTGACATCTTTTGATCA CONSENSUS (961) 1021 1080 CCRC12913 (251)			
1021 1080			
1021 1080	F31		CATGTGGTTTAATTCGAAGCAACGCGAAGAACCTTACCAAGTCTTGACATCTTTGATCA
CCRC12913 (251) CCRC14001 (262) GM-080 (257) CCRC16100 (264)	Consensus	(961)	
CCRC12913 (251) CCRC14001 (262) GM-080 (257) CCRC16100 (264)			1000
CCRC14001 (262) GM-080 (257) CCRC16100 (264) KLB58 (1001) CCTGAGAGATCAGGTTTCCCCTTCGGGGGCAAAATGACAGGTGGTGCATGGTTGTCGTCA PB4 (539)	ggpg10010	(05.1)	1021
GM-080 (257)		(251)	
CCRC16100 (264) KLB58 (1001) CCTGAGAGATCAGGTTTCCCCTTCGGGGGCAAAATGACAGGTGGTGCATGGTTGTCGTCA PB4 (539) F31 (1003) CCTGAGAGATCAGGTTTCCCCTTCGGGGGCAAAATGACAGGTGGTGCATGGTTGTCGTCA		(262)	
KLB58 (1001) CCTGAGAGATCAGGTTTCCCCTTCGGGGGCAAAATGACAGGTGGTGCATGGTTGTCGTCA PB4 (539) F31 (1003) CCTGAGAGATCAGGTTTCCCCTTCGGGGGCAAAATGACAGGTGGTGCATGGTTGTCGTCA		(257)	
PB4 (539)F31 (1003) CCTGAGAGATCAGGTTTCCCCTTCGGGGGCAAAATGACAGGTGGTGCATGGTTGTCGTCA			
F31 (1003) CCTGAGAGATCAGGTTTCCCCTTCGGGGGCAAAATGACAGGTGGTGCATGGTTGTCGTCA			
Consensus (1021)			CCTGAGAGATCAGGTTTCCCCTTCGGGGGCAAAATGACAGGTGGTGCATGGTTGTCGTCA
	Consensus	(1021)	

FIG. 3 (continued)

		1081 1140
CCRC12913	(251)	
CCRC14001	(262)	
GM-080	(257)	
CCRC16100	(264)	
KLB58	(1061)	${\tt GCTCGTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCCTTATGACTAGTTG}$
PB4	(539)	
F31	(1063)	${\tt GCTCGTGTCGTGAGATGTTGGGTTAAGTCCCGCAACGAGCGCAACCCTTATGACTAGTTG}$
Consensus	(1081)	
		1141 1200
CCRC12913	(251)	1141 1200
CCRC12913	(262)	
GM-080	(257)	
CCRC16100	(264)	
KLB58	(1121)	CCAGCATTTAGTTGGGCACTCTAGTAAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGA
PB4	(539)	
F31	(1123)	CCAGCATTTAGTTGGGCACTCTAGTAAGACTGCCGGTGACAAACCGGAGGAAGGTGGGGA
Consensus	(1141)	33.13.11.11.11.11.11.11.11.11.11.11.11.1
001150115015	(1111)	
		1201 1260
CCRC12913	(251)	
CCRC14001	(262)	
GM-080	(257)	
CCRC16100	(264)	
KLB58	(1181)	TGACGTCAAATCATCATGCCCCTTATGACCTGGGCTACACACGTGCTACAATGGATGG
PB4	(539)	
F31	(1183)	${\tt TGACGTCAAATCATGCCCCTTATGACCTGGGCTACACGTGCTACAATGGATGG$
Consensus	(1201)	
		1320
CCRC12013	(251)	1261 1320
CCRC12913	(251) (262)	1201
CCRC14001	(262)	
CCRC14001 GM-080		
CCRC14001	(262) (257)	
CCRC14001 GM-080 CCRC16100	(262) (257) (264)	
CCRC14001 GM-080 CCRC16100 KLB58	(262) (257) (264) (1241) (539)	
CCRC14001 GM-080 CCRC16100 KLB58 PB4	(262) (257) (264) (1241) (539)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31	(262) (257) (264) (1241) (539) (1243)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus	(262) (257) (264) (1241) (539) (1243) (1261)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321 1380
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus	(262) (257) (264) (1241) (539) (1243) (1261)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321 1380
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321 1380
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262) (257)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321 1380
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262) (257) (264)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321 1380
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262) (257) (264) (1301)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321 1380
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262) (257) (264) (1301) (539)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321 1380 GTAGGCTGCAACTCGCCTACACGAAGTCGGAATCGCTAGTAATCGCGGATCAGCACGCCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262) (257) (264) (1301) (539) (1303)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321 1380
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262) (257) (264) (1301) (539)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321 1380 GTAGGCTGCAACTCGCCTACACGAAGTCGGAATCGCTAGTAATCGCGGATCAGCACGCCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262) (257) (264) (1301) (539) (1303)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321 1380 GTAGGCTGCAACTCGCCTACACGAAGTCGGAATCGCTAGTAATCGCGGATCAGCACGCCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262) (257) (264) (1301) (539) (1303)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321 1380 GTAGGCTGCAACTCGCCTACACGAAGTCGGAATCGCTAGTAATCGCGGATCAGCACGCCG GTAGGCTGCAACTCGCCTACACGAAGTCGGAATCGCTAGTAATCGCGGATCAGCACGCCG
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262) (257) (264) (1301) (539) (1303) (1321)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262) (257) (264) (1301) (539) (1303) (1321)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC12913 CCRC14001	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262) (257) (264) (1301) (539) (1303) (1321) (251) (262) (257) (264)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321 1380 GTAGGCTGCAACTCGCCTACACGAAGTCGGAATCGCTAGTAATCGCGGATCAGCACGCCG GTAGGCTGCAACTCGCCTACACGAAGTCGGAATCGCTAGTAATCGCGGATCAGCACGCCG 1381 1440
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262) (257) (264) (1301) (539) (1303) (1321) (251) (262) (257) (264) (1361)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 CORC14001 GM-080 CCRC16100 KLB58	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262) (257) (264) (1301) (539) (1303) (1321) (251) (262) (257) (264) (1361) (539)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321
CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58 PB4 F31 Consensus CCRC12913 CCRC14001 GM-080 CCRC16100 KLB58	(262) (257) (264) (1241) (539) (1243) (1261) (251) (262) (257) (264) (1301) (539) (1303) (1321) (251) (262) (257) (264) (1361) (539)	CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT CAACGAGTTGCGAGACCGCGAGGTCAAGCTAATCTCTTAAAGCCATTCTCAGTTCGGACT 1321 1380 GTAGGCTGCAACTCGCCTACACGAAGTCGGAATCGCTAGTAATCGCGGATCAGCACGCCG GTAGGCTGCAACTCGCCTACACGAAGTCGGAATCGCTAGTAATCGCGGATCAGCACGCCG 1381 1440

FIG. 3 (continued)

		1441 1500
CCRC12913	(251)	
CCRC14001	(262)	
GM-080	(257)	
CCRC16100	(264)	
KLB58	(1421)	CCCGAAGCCGGTGGCGTAACCCTTTTAGGGAGCGAGCTGTCTAAGGTGGGACAAATGATT
PB4	(539)	
F31	(1423)	CCCGAAGCCGGTGGCGTAACCCTTTTAGGGAGCGAGCTGTCTAAGGTGGGACAAATGATT
Consensus	(1441)	
		1501 1537
CCRC12913	(251)	
CCRC14001	(262)	
GM-080	(257)	
CCRC16100	(264)	
KLB58	(1481)	AGGGTGAAGTCGTAACAAGGTAGCTAAAGGAGA
PB4	(539)	
F31	(1483)	AGGGTGAAGTCGTAACAAGG-AGCTGTAGGAGAACTA
Consensus	(1501)	

FIG. 3 (continued)

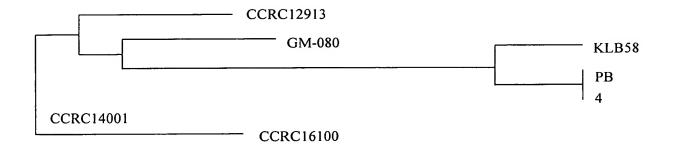


FIG. 4

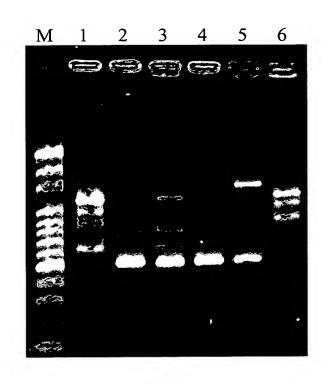


FIG. 5

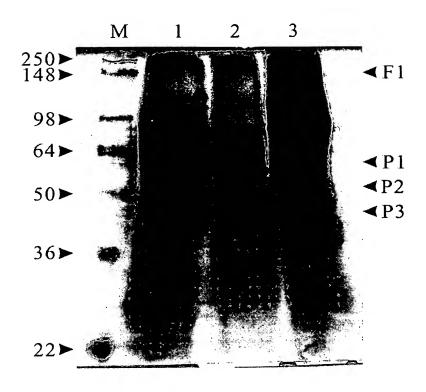


FIG. 6

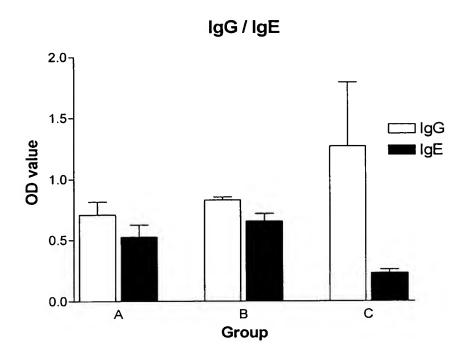


FIG. 7

BALF-Cell Count

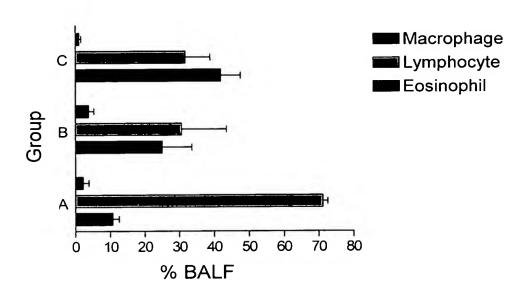


FIG. 8

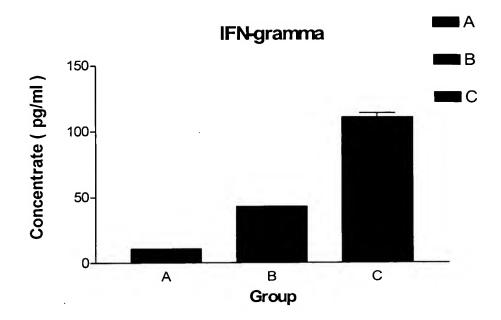


FIG. 9

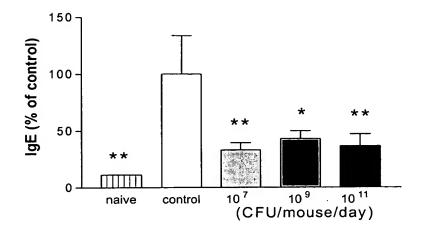


FIG. 10